

DE LA RECHERCHE À L'INDUSTRIE



EUROPEAN
SPALLATION
SOURCE

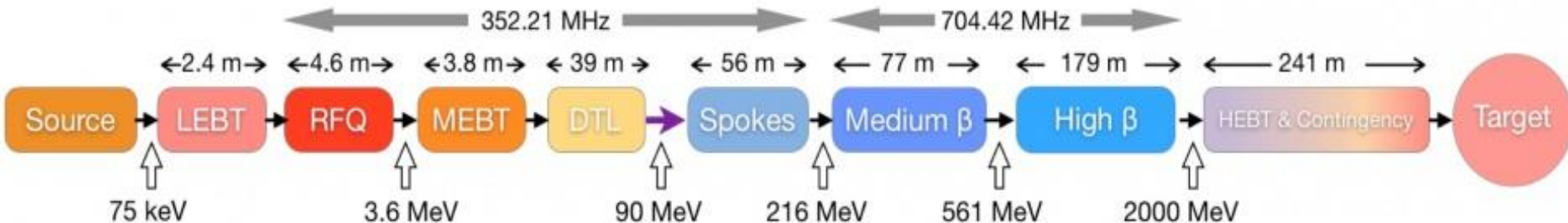
NUETRONS BEAM LOSS MONITORS

KICK-OFF MEETING

25TH JULY 2016

GENERAL INTRODUCTION

Optimus+



CONTRACT INKIND between CEA- ESSI and ESS-ACCSYS for nBLM AIK # 7.9 = Schedule # 1.11 :

➤ **Status :** technically to be agreed before forward to Lawyers



Main Kick-off-Meeting aims :

- To agree scope of work, development plan and interfaces
- To obtain the « green light » to start work on scope of work

Work have to be done in a collaborative spirit

Diagnostics LEBT

- Mid 2016 : EMU & doppler

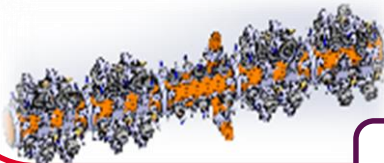
Control System –
mid-2016 : Proton
Source & LEBT



RFQ

Lund : mid 2018

- RFQ & its support
- Cooling system
- Assembly tools for the tunnel
- Vacuum & cooling system control



CRYOMODULES

2 demonstrators : M-ECCTD & H-ECCTD
30 Cryomodules assembled

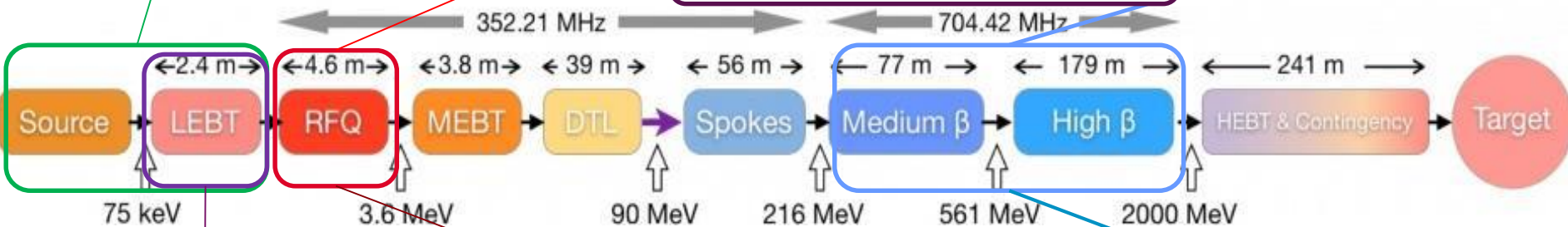


2018-19 : 9 CM Med β

2019-21 : 21 CM High β



Diagnostics :
Non Invasive Profile Monitors
nBLM



SACLAY

Mi 2016 :
Acceptance tests
Control system

2017 : 352 MHz RF couplers
conditioning :

- Klystron & Modulator 352 MHz
- Control system



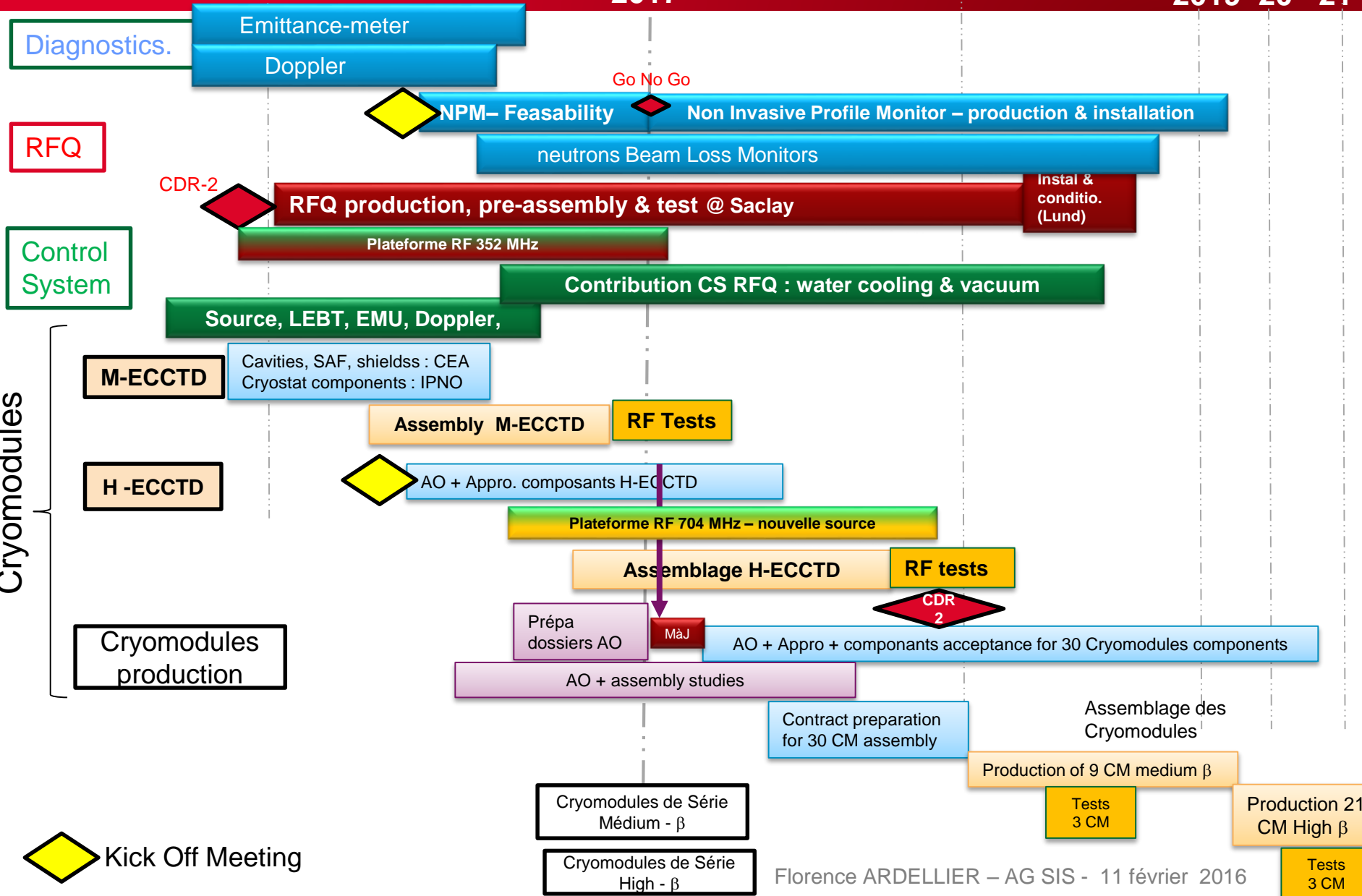
- Mi 2017 : Tests stand 704 MHz ready for conditioning phase of RF couplers
- Infrastructures and tests facilities
- Tests de qualification de 6 Cryomodules



2016

2017

2018

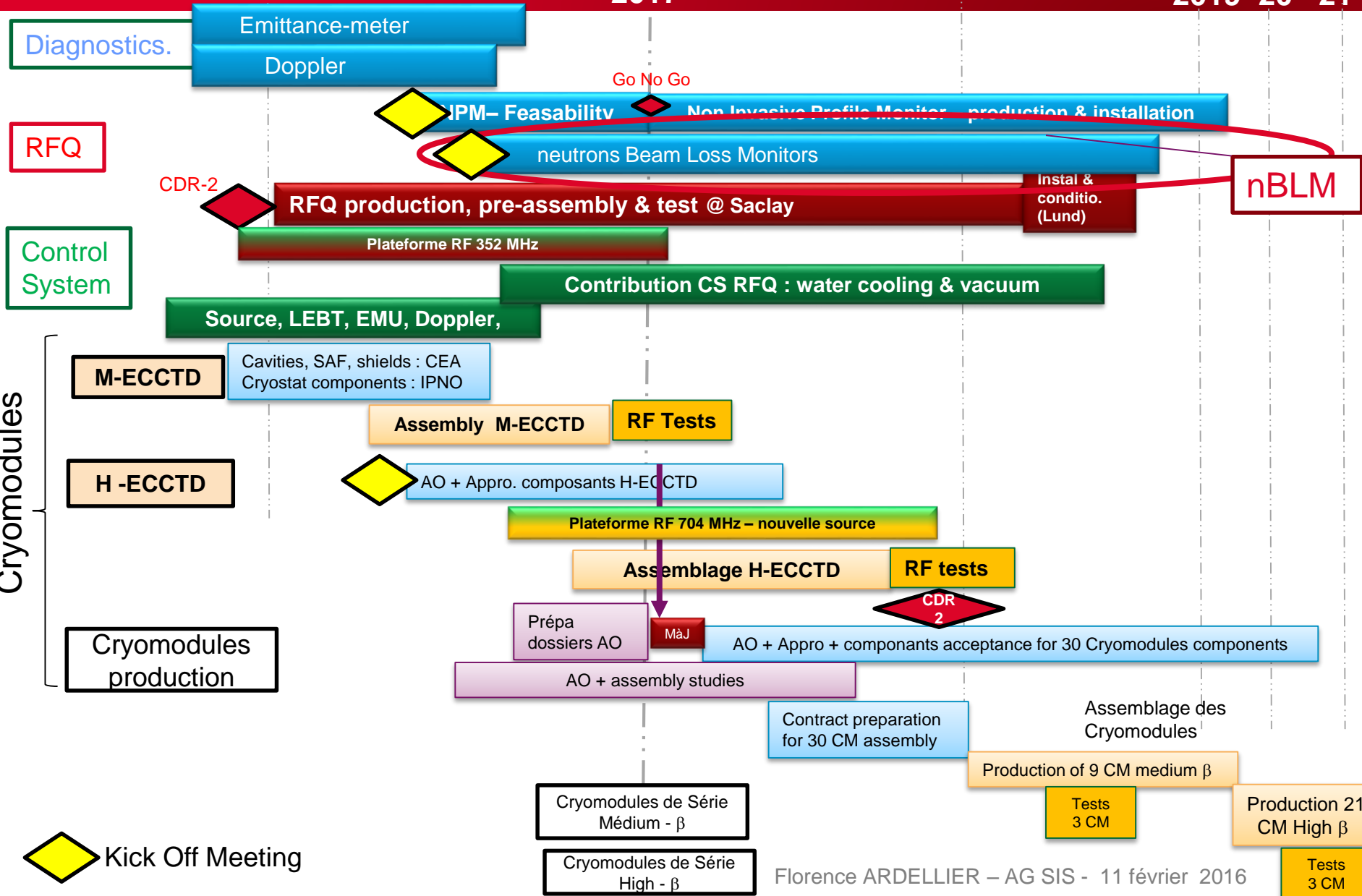


Kick Off Meeting

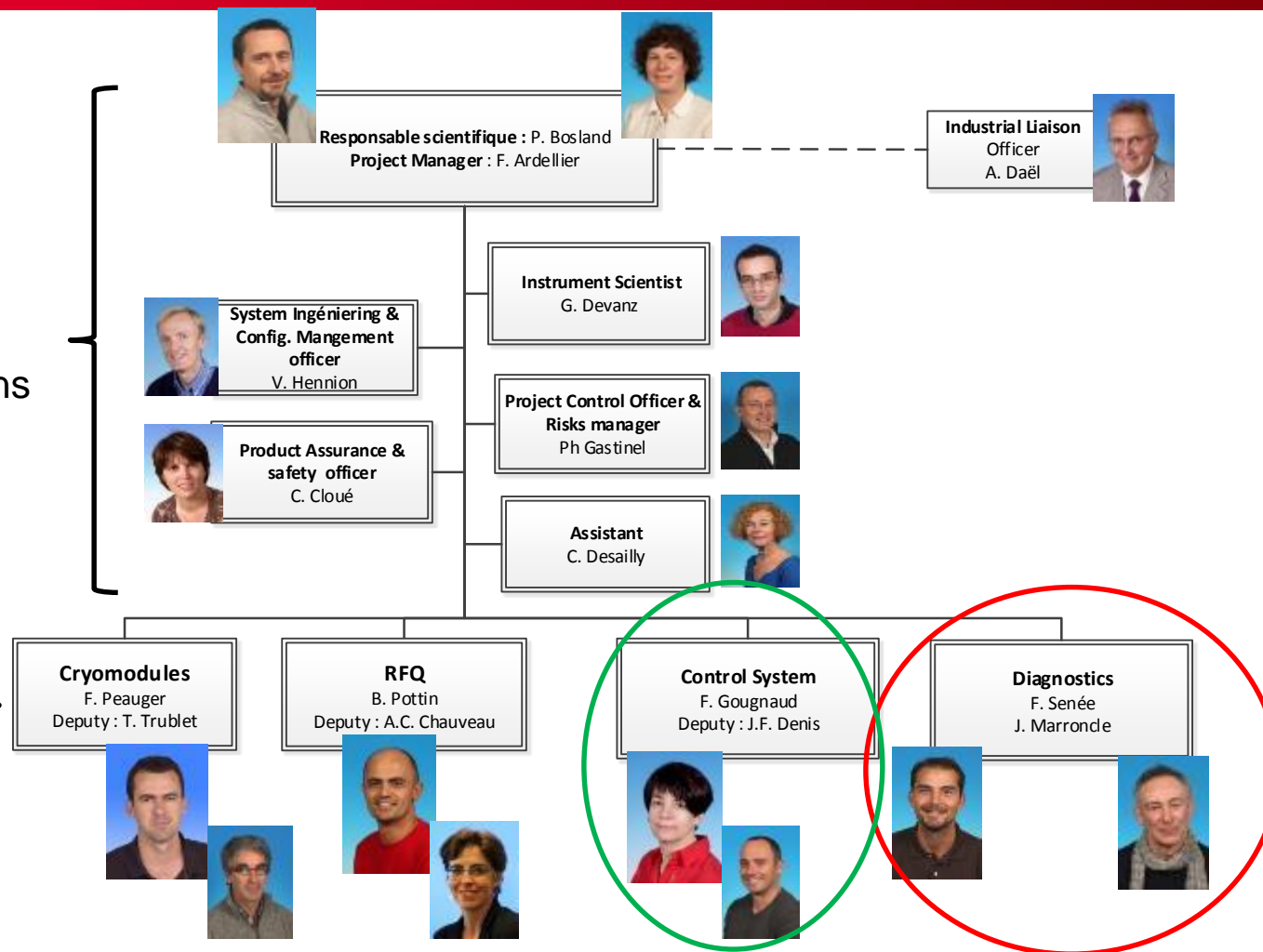
2016

2017

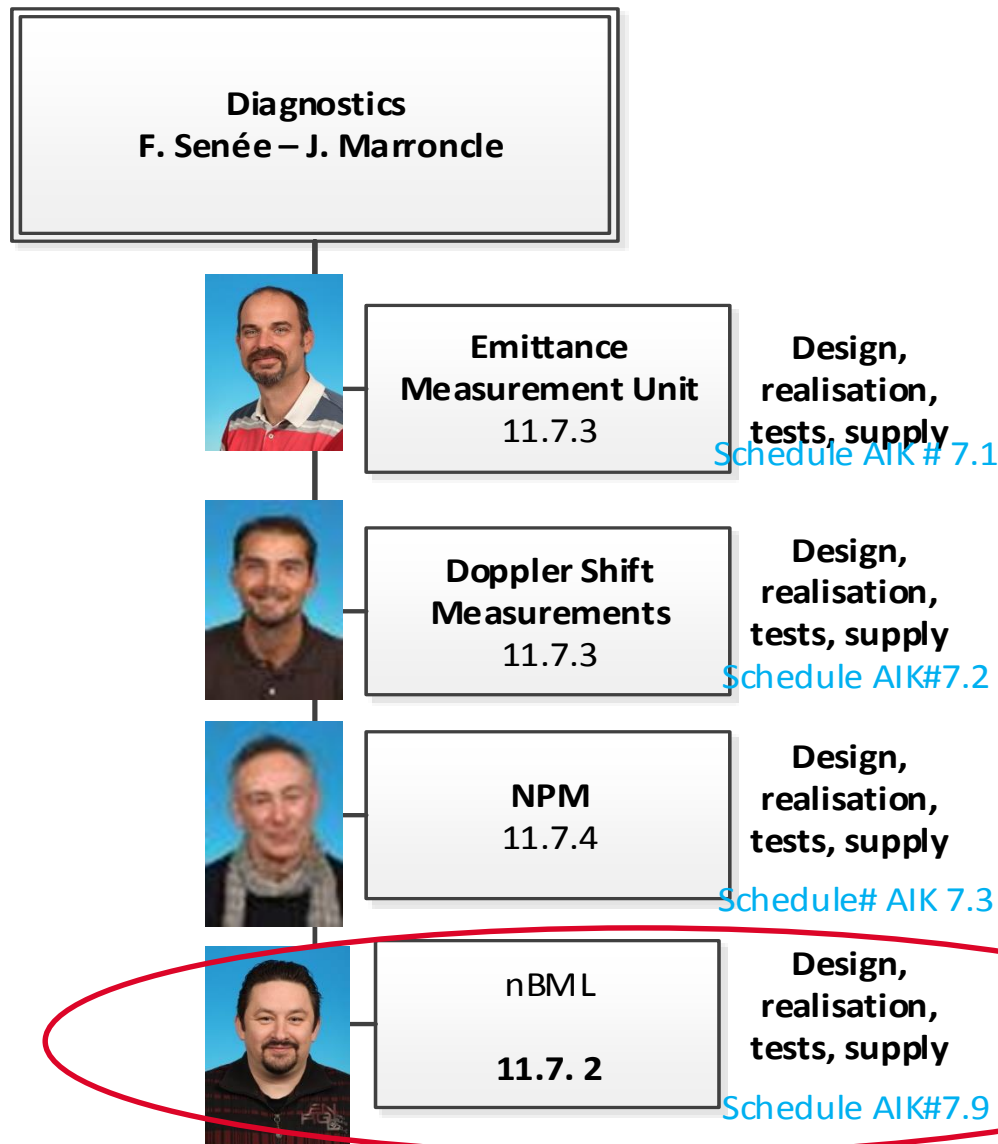
2018



ESS Head of
ACCSYS
& ICS divisions



=> standardisation of the QA / QC, project control and system engineering management



nBLM particularities :

- CEA has a long experience (more than 20 years) of Micromegas detectors
- ICS has to defined during the 1st phase of the project. It is not included in the Schedule AIK#7.9 Sow.
- Interfaces and requirements has to be defined and considered As Soon As Possible